UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

00270

7590

10/06/2004

HOWSON AND HOWSON ONE SPRING HOUSE CORPORATION CENTER BOX 457 321 NORRISTOWN ROAD SPRING HOUSE, PA 19477 EXAMINER

LARKIN, DANIEL SEAN

ART UNIT

PAPER NUMBER

2856

DATE MAILED: 10/06/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630.072	07/30/2003	Frank Paul	P32168	9432

TITLE OF INVENTION: QUARTZ CRYSTAL MICROBALANCE WITH FEEDBACK LOOP FOR AUTOMATIC GAIN CONTROL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$300	\$1670	01/06/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000

			or <u>rax</u>	(703) 740-4000			
INSTRUCTIONS: This for appropriate. All further con indicated unless corrected b maintenance fee notification	m should be used for tran respondence including the l elow or directed otherwise s.	smitting the ISSU Patent, advance or in Block 1, by (a	E FEE and PUBL ders and notificatio) specifying a new	CATION FEE (if request of maintenance fees to correspondence address	nired). Blocks I through 5 s will be mailed to the current c; and/or (b) indicating a sepa	hould be completed where correspondence address as trate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
00270 75	90 10/06/2004			have its own certificat	te of mailing or transmission.		
HOWSON AND	HOWSON			Ce	rtificate of Mailing or Trans	mission	
ONE SPRING HOUSE CORPORATION CENTER BOX 457				I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimilar transmitted to the USPTO (703) 746-4000, on the date indicated below.			
321 NORRISTOW SPRING HOUSE, I						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	1	FIRST NAMED INVI	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/630,072	07/30/2003		Frank Paul		P32168	9432	
TITLE OF INVENTION: Q	UARTZ CRYSTAL MICRO	BALANCE WITH	H FEEDBACK LO	OP FOR AUTOMATIC	GAIN CONTROL		
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nonprovisional	NO	\$1370) 	\$300	\$1670 -	01/06/2005	
EXAM	INER	ART UN	IT	CLASS-SUBCLASS			
LARKIN, DA	NIEL SEAN	2856		073-064530			
1. Change of correspondence CFR 1.363).	address or indication of "Fe	ee Address" (37		the patent front page, l			
•	ence address (or Change of 22) attached.	Correspondence	(1) the names of or agents OR, al	up to 3 registered pate ernatively,	nt attorneys		
	22) attached. ion (or "Fee Address" Indica		(2) the name of	a single firm (having as ey or agent) and the nar	a member a 2		
PTO/SB/47; Rev 03-02 of Number is required.	or more recent) attached. Use	e of a Customer	2 registered pate listed, no name	nt attorneys or agents. It	f no name is 3		
	RESIDENCE DATA TO B						
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion	elow, no assignee of this form is NO	data will appear on Γ a substitute for fil	the patent. If an assig ng an assignment.	nee is identified below, the o	locument has been filed for	
(A) NAME OF ASSIGNI	EE	(B) RESIDENCE: (C	TY and STATE OR CO	OUNTRY)		
						Dia	
Please check the appropriate 4a. The following fee(s) are			nted on the patent) Payment of Fee(s)		Corporation or other private gr	oup entity Government	
Issue Fee	enciosed.	40	_ '	amount of the fee(s) is e	nclosed.		
_			_	ent by credit card. Form PTO-2038 is attached.			
Advance Order - # of Copies			The Director is	s hereby authorized by of	charge the required fee(s), or (enclose an extra o	credit any overpayment, to	
5 Change in Entity Status	(from status indicated above	<u>-)</u>	Deposit Account I		(Chelose an extra c	opy of this form.	
a. Applicant claims Si	MALL ENTITY status. See	37 CFR 1.27.			ALL ENTITY status. See 37 C		
The Director of the USPTO NOTE: The Issue Fee and Printerest as shown by the reco	is requested to apply the Issu ublication Fee (if required) vords of the United States Pate	ue Fee and Publica will not be accepted ent and Trademark	tion Fee (if any) or a from anyone other Office.	o re-apply any previous than the applicant; a reg	sly paid issue fee to the applic gistered attorney or agent; or t	ation identified above. he assignee or other party ir	
Authorized Signature	*** ** * · · · · ·			Date			
Typed or printed name	i, -			Registration	n No		
This collection of information an application. Confidentiali	on is required by 37 CFR 1.3 ty is governed by 35 U.S.C.	11. The information. 122 and 37 CFR	on is required to obta	nin or retain a benefit by	the public which is to file (an minutes to complete, including the amount of the	d by the USPTO to processing gathering, preparing, and	

submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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HOWSON AND HOWSON			LARKIN, DA	LARKIN, DANIEL SEAN	
ONE SPRING BOX 457	HOUSE CORPORATIO	N CENTER	ART UNIT	PAPER NUMBER	
321 NORRISTOWN ROAD SPRING HOUSE, PA 19477			2856		
			DATE MAIL ED: 10/06/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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HOWSON AND HOWSON				LARKIN, DANIEL SEAN		
ONE SPRING BOX 457	HOUSE C	ORPORATION	CENTER	ART UNIT	PAPER NUMBER	
321 NORRIST	OWN ROA	ΔD		2856		
SPRING HOUSE, PA 19477				DATE MAILED: 10/06/2004		

Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees will increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 52604, 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

or promise parents	
By a small entity (Sec. 1.27(a))	\$685.00
By other than a small entity	\$1,370.00
(b) Issue fee for issuing a design patent:	
By a small entity (Sec. 1.27(a))	\$245.00
By other than a small entity	\$490.00
(c) Issue fee for issuing a plant patent:	
By a small entity (Sec. 1.27(a))	\$330.00
By other than a small entity	\$660.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.